

202

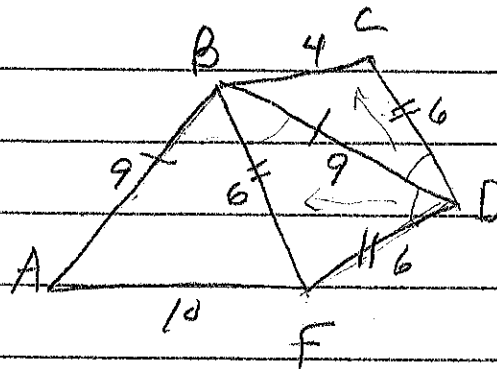
5.5 HW

Key p271 10-18, 20

$$10. \quad \underset{9u}{AB} > \underset{6u}{FD}$$

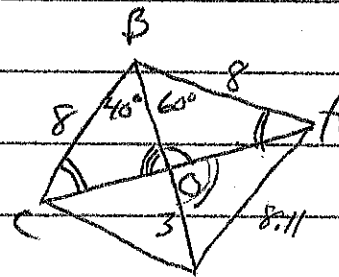
$$11. \quad \underset{4}{m\angle BDC} < \underset{6}{m\angle FDB}$$

$$12. \quad \underset{10}{m\angle FBA} > \underset{6}{m\angle DBF}$$



$$13. \quad \underset{60^\circ}{AD} > \underset{48^\circ}{DC}$$

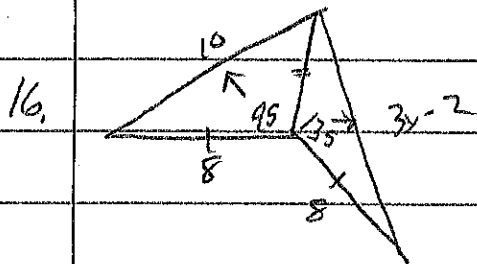
$$14. \quad \underset{40^\circ}{OC} < \underset{60^\circ}{OA}$$



$$15. \quad m\angle AOD > m\angle AOB$$

$$m\angle BOC > m\angle BDA$$

which $m\angle AOD$



$$3x - 2 > 10$$

$$3x > 12$$

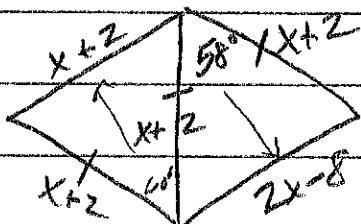
$$x > 4$$

Restr

$$3x - 2 > 0$$

$$x > \frac{2}{3}$$

17.



$$x + 2 > 2x - 8$$

$$10 > x$$

$$4 < x < 10$$

Restrictions

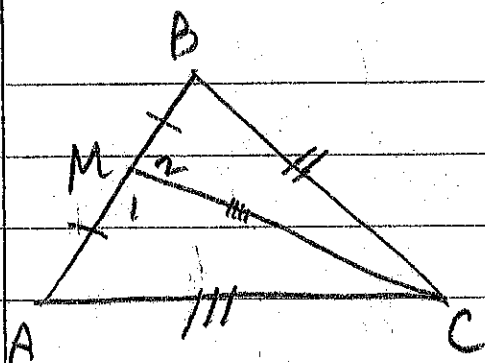
$$x + 2 > 0$$

$$x > -2$$

$$2x - 8 > 0$$

$$x > 4$$

18.



$$m\angle 1 > m\angle 2$$

$$5x + 20 > 8x - 100$$

$$120 > 3x$$

$$40 > x$$

Rest.

$$5x + 20 > 0$$

$$8x - 100 > 0$$

$$5x > -20$$

$$8x > 100$$

$$x > -4$$

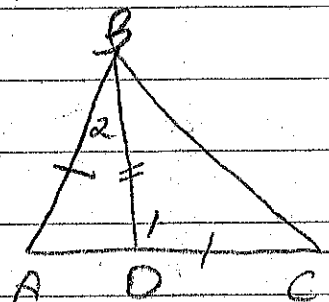
$$x > \frac{100}{8} \quad \frac{50}{4} \quad \frac{25}{2}$$

$$x > 12.5$$

$$12.5 < x < 40$$

20.

$\triangle ABC$ $\overline{AB} \cong \overline{AD}$ P. $BC > AD$



① ~

① Given

② $m\angle 1 > m\angle 2$

② Ext \angle Ineq thm

③ $\overline{BD} \cong \overline{BD}$

③ Refl.

④ $BC > AD$

④ SAS Ineq (Hing thm)